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## LIST OF PUBLICATIONS

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142 1950. The practice of forestry compared with agriculture, by C. R. Ranganathan.  
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**SILVICULTURE SERIES**

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No.

4 1906. *Ficus elastica*: its natural growth and artificial propagation with a description of the method of tapping the tree and of the preparation of its rubber for the market, by E. M. Coventry. *Out of print.*  
5 1906. Visit to some European schools of Forestry, by E. P. Stebbing. *Out of print.*  
7 1906. *Chilgoza* forests of Zhob and the Takht-i-Suleman, by E. P. Stebbing. *Out of print.* (Originally published in the entomology series.)  
9 1906. Influence of forests on the storage and regulation of the water-supply, by S. Eardley Wilmot. *Out of print.*

*Indian Forest Bulletins (New Series)*

2 1911. Teak plantations in Burma, by F. A. Leete. *Out of print.*  
4 1911. Glossary of technical terms for use in Indian forestry, by A. M. F. Caccia and R. S. Troup. *Revised as Indian For. Rec. (n.s.) 2 (1), 1936.*  
8 1912. Some germination tests with sal seed (*Shorea robusta*), by R. S. Troup. *Out of print.*  
22 1913. Causes and effects of the drought of 1907 and 1908 on the sal forests of the United Provinces, by the same author. *Out of print.*  
30 1915. Compilation of girth increments from sample plot measurements, by the same author. *Out of print.*  
33 1916. Enquiry by the Government of India into the relation between forests and atmospheric and soil moisture in India, by M. Hill. *Out of print.*  
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46 1921. Rate of growth of Bengal sal (*Shorea robusta*), I quality, by S. H. Howard. *Out of print.*  
47 1922. Volume tables and form factors for sal (*Shorea robusta*), by the same author. *Out of print.*  
52 1922. Classification of thinnings. Anon. *Revised as Indian For. Rec. (o.s.) 15 (1), 1930.*  
58 1924. General volume tables for chir (*Pinus longifolia*), by S. H. Howard. *Out of print.*  
• 62 1925. Preliminary yield table for *Dalbergia sissoo*, by the same author. As. 0-2-0.  
65 1925. Tables for bark deductions from logs, by the same author. *Out of print.*  
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78 1932. Problem of the pure teak plantation, by H. G. Champion. *Revised as Indian For. Rec. (n.s.) 5 (1), 1942.*

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- 162 1952. Notes on the utilization and silviculture of the timbers used in wood based industries of India compiled in the Silviculture Branch, Forest Research Institute, Dehra Dun. Rs. 1-12-0.
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## Indian Forest Leaflets

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- \*27 1942. Notes on some aspects of erosion control, by Jagdamba Prasad. Reprinted 1946. As. 0-8-0.
- 38 1943. Land use and erosion, by the same author. Reprinted 1947. As. 0-6-0.
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- +60 1944. Short note on the *berdi* leaf industry, by the same author. Reprinted 1949. As. 0-8-0.
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## Indian Forest Memoirs

(N.B.—The part number is indicated within brackets after the volume number.)

1 (1) 1916. *Pinus longifolia* Roxb. A silvicultural study, by R. S. Troup. Rs. 5-0-0.

## Forest Pamphlets

3 1908. Glossary of technical terms for use in Indian forestry, by A. M. F. Caccia Revised as *Indian For. Rec.* (n.s.) (2) (1), 1936.

5 1909. Sal in Bengal, by A. L. McIntire. *Out of print.*

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9 1910. Table showing the progress in working plans in the provinces outside the Madras and Bombay Presidencies up to 31st December, 1908, by the same author. *Out of print.*

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## Indian Forest Records (Old Series)

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10 (6) 1924. General volume tables for sal (*Shorea robusta*) classified by diameter and height, by S. H. Howard. *Out of print.*

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- \*4-A(1) 1940. Yield and stand tables for teak (*Tectona grandis* Linn. f.) plantations in India and Burma, by M. V. Laurie and Bakshi Sant Ram. Rs. 4-6-0.
- \*4-A(2) 1941. Provisional yield tables for (*Dalbergia sissoo* Linn. f.) in the irrigated plantations of the Punjab, by Bakshi Sant Ram. Rs. 2-8-0.
- \*4-A(3) 1942. Standard and commercial volume tables for teak (*Tectona grandis* Linn. f.) in the Central Provinces, by the same author. Rs. 2-4-0.
- \*4-A(4) 1943. Yield and stand tables for sal (*Shorea robusta* Gaertn. f.) high forest, by A. L. Griffith and Bakshi Sant Ram. (Reprinted 1948). Rs. 6-10-0.
- \*4-A(5) 1947. General standard and commercial volume tables for *Terminalia tomentosa* W. & A., by A. L. Griffith and others. Rs. 1-2-0.
- 5 (1) 1942. Problem of the pure teak plantation (A revision of Bulletin No. 78 of 1932), by M. V. Laurie and A. L. Griffith. *Out of print.*
- 5 (2) 1942. Teak plantation technique by A. L. Griffith. *Out of print.*
- \*6 (1) 1946. English translation of the results of an erosion experiment published in the Proceedings of the Swiss Forest Research Institute, Vol. 23, Part 1—1945, by Hans Burger, translated by A. L. Griffith and C. W. A. Sondermann. Rs. 1-11-0.
- \*6 (2) 1946. Stomates and early growth of some timber trees of the Malabar Coast, by A. L. Griffith. Rs. 2-12-0.
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\*1933 Tables for use with Brandis Hypsometer for measuring the height of trees, etc., by F. B. Manson and H. H. Haines. As. 0-10-0.

1916 Note on some European silvicultural systems, with suggestions for improvement in Indian forest management, by R. S. Troup. *Out of print*.

1950 Proceedings of the 7th Silvicultural Conference, Dehra Dun, October 28th to November 6th, 1946. *Unpriced*.

## Manuals

1910 Preparation of forest working plans in India, by W. E. D'Arcy. Revised by A. M. F. Caccia (4th edition). *Out of print*.

1931 Silviculture Research Manual for use in India, Vol. 1—(Experimental Manual) by H. G. Champion. *Out of print*.

1931 Silviculture Research Manual for use in India, Vol. 2—(Statistical Code) by H. G. Champion and I. D. Mahendru. *Out of print*.

+1926 Manual of Forest Mensuration. Revised by C. Simmons. *Out of print*.

+1922 Schlich's Manual of Forestry, Vol. 1 (4th edition). Rs. 7-8-0.

\*1948 Silviculture Research Code, Vol. 2.—Statistical Manual, by A. L. Griffith and Bakshi Sant Ram. Rs. 11-2-0.

1949 Silviculture Research Code, Vol. 3.—Tree and crop measurement, by A. L. Griffith and J. Prasad. Rs. 13-6-0.

## Publications printed outside India

+1921 Silviculture of Indian Trees, by R. S. Troup, 3 Vols. For forest officers and departmental libraries. Rs. 40-0-0. For public. Rs. 78-12-0.

1938 Manual of Indian Silviculture. Part I—General Silviculture, by H. G. Champion and Part 2.—Silviculture Systems, by Sir Gerald Trevor. *Out of print*.

1947 Manual of General Silviculture for India, by H. G. Champion and A. L. Griffith (Obtainable from Messrs. Oxford University Press, Bombay/Calcutta/Madras). Rs. 25-0-0. *Out of print*.

+1926 Measurements of the Cubical Contents of Forest Crops, Oxford Forestry Memoirs No. 4, by M. D. Chaturvedi. Rs. 4-0-0.

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## STATISTICAL SERIES *Indian Forest Bulletins (New Series)*

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### *Indian Forest Leaflet*

109 1950. On the application of statistical quality control methods in wood-base industries, by K. R. Nair (For official use only).  
131 1953. Statistical methods in forest products research, by K. R. Nair. As. 0-7-0.  
134 1953. Statistical methods in forest research, by K. R. Nair. As. 0-7-0.

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25 1914. Development of the culms of grasses, by the same author. *Out of print.*  
†61 1925. Eucalyptus in the plains of North-West India, by R. N. Parker. As. 0-5-0.  
†63 1925. Eucalyptus tries in the Simla Hills, by the same author. As. 0-8-0.  
†73 1931. Herbarium of the Forest Research Institute, by the same author. As. 0-5-0. *Out of print.*  
†76 1932. List of plants collected in West Nepal. As. 0-4-0. *Out of print.*  
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### *Indian Forest Memoirs*

(N.B.—The part number is indicated within brackets after the volume <sup>\*</sup>number.)  
†1 (1) 1911. Some Indian forest grasses and their oecology, by R. S. Hole. Rs. 5-8-0

### *Indian Forest Records (Old Series)*

4 (3) 1913. Useful exotics in Indian forests (No. 1—*Prosopis juliflora*, DC.), by R. S. Hole. *Out of print.*  
4 (4) 1913. On *Albizia lathamii*, by the same author. *Out of print.*  
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\*1 (3) 1938. List of grasses of Assam, by N. L. Bor. Rs. 2-10-0.

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\*1 (5) 1939. Recently introduced or otherwise imperfectly known plants from the Upper Gangetic Plain, by M. B. Raizada. As. 0-12-0.

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\*2 (2) 1941. *Thyrostachys oliveri* Gamble, by the same author. As. 0-10-0.

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3 (1) 1941. Flora of the Aka Hills, by K. Biswas. Rs. 2-2-0.

3 (2) 1941. Some additions to the botany of Bihar and Orissa, by H. F. Mooney. Rs. 2-0-0.

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1 (2) 1953. The fungal diseases of sal (*Shorea robusta* Gaertn.) Part I.—Leaf spot (*Cercospora* sp.), Stem canker (*Macrophoma shorea* sp. Nov.), sooty moulds (*Capnodium* sp., and *Melida* sp.) and root and stem rot (*Xylaria* spp.) of sal, by K. Bagchee. Rs. 1-4-0.

1 (3) 1953. A new and noteworthy disease of gamhar (*Gmelina arborea* Linn.) due to *Poria Rhizomorpha* sp. Nov., by K. Bagchee. Rs. 1-4-0.

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6 1906. Mechanical tests of some Indian timbers, by W. H. Everett. Out of print.

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3 1911. Relative strength of natural and plantation-grown teak in Burma, by R. S. Pearson. Out of print.

13 1913. *Ligno Protector* as a possible means of preventing timber from splitting while seasoning, by R. S. Pearson. Out of print.

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†16 1913. Note on gamhar (*Gmelina arborea*, Roxb.), by A. Rodger. As. 0-3-0.

17 1913. Note on bijasal or vengai (*Pterocarpus marsupium*, Roxb.), by the same author. Out of print.

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26 1914. Resin industry in Kumaon, by E. A. Smythies. *Out of print.*

27 1915. Note on blackwood (*Dalbergia latifolia*, Roxb.), by E. Benskin. *Out of print.*

28 1915. Note on *dhauri* (*Lagerstroemia parviflora*, Roxb.), by the same author. *Out of print.*

†29 1915. Note on *sundri* timber (*Heritiera minor*, Lam.), by R. S. Pearson. **Rs. 0-3-0.**

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35 1917. Note on *babul* (*Acacia arabica*, Willd.), by J. D. Maitland Kirwan. *Out of print.*

†36 1917. Note on *kokan* or *lampatia* timber (*D unabanga sonneratiioides*, Ham.), by R. S. Pearson. **Rs. 0-3-0.**

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†39 1919. Note on *hollong* timber (*Dipterocarpus pilosus*, Roxb.), by the same author. **Rs. 0-5-0.**

†40 1920. Note on *pyinma ajhur* or *jarul* wood (*Lagerstroemia flos-reginae*), Retz., by the same author. **Rs. 0-3-0.**

†42 1921. Note on *haldu* (*Adina cordifolia*, Hook. f.), by C. E. C. Cox. **Rs. 0-8-0.**

†43 1921. Note on *Odina wodier*, Roxb., by the same author. **Rs. 0-8-0.**

†44 1921. Note on *semul* or cotton wood (*Bombax malabaricum*), by the same author. **Rs. 0-10-0.**

†48 1922. Note on *kindal* or *hongal* (*Terminalia paniculata* W. & A.), by R. S. Pearson. **Rs. 0-6-0.**

†49 1922. Note on *thingan* (*Hopea odorata*, Roxb.), by A. Rodger. **Rs. 0-7-0.**

†50 1922. Note on *gurjun* or *kanyin* (*Dipterocarpus* spp.), compiled by W. A. Robertson. **Rs. 0-4-0.**

51 1923. Investigation of certain factors concerning the resin-tapping industry in *Pinus longifolia*, by H. G. Champion. *Out of print.*

53 1923. Summary of results of treated and untreated experimental sleepers laid in the various railway systems of India, brought up to date, by R. S. Pearson. *Out of print.*

54 1923. Dry slides and flumes (wet slides) being extracts from note on American logging practice, by C. G. Rogers. *Out of print.*

55 1923. Animal haulage, caterpillar tractors and portable sawmills, by the same author. *Out of print.*

56 1924. Report on the tan values of Indian myrobalans and Burma *Terminalia*'s, by J. A. Pilgrim. *Out of print.*

†57 1924. Tan investigation of the Burma hill pine, *Pinus khasya* bark and *pyinkado*, *Xylia dolabriformis*, by the same author. **Rs. 0-3-0.**

†59 1925. Summary of results of treated and untreated experimental sleepers laid in the various railway systems of India, brought up to date, by J. H. Warr. **Rs. 1-14-0.**

†60 1925. Note on *ainee* (*Artocarpus hirsuta*, Lamk.), by C. C. Wilson. **Rs. 0-7-0.**

64 1925. Summary of results of laboratory experiments with different wood preserving antiseptics, by S. Kamesam. *Out of print.*

66 1925. Note on the working qualities of some common Indian timbers, by H. E. Kinns. *Out of print.*

68 Withdrawn.

†69 1927. Mechanical and physical properties of Himalayan spruce and silver fir, by L. N. Seaman, assisted by C. R. Ranganathan. **Rs. 1-1-0.**

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71 1929. List of trade names of Indian timbers. *Revised as Indian For. Rec. (n.s.) I (7), 1938.*

72 1929. Instructions for the operation of the timber seasoning kilns, by S. N. Kapur. *Out of print.*

74 1931. Summary of results of treated experimental sleepers laid in the various railway systems of India, brought up to date, by F. J. Popham. *Out of print.*

75 1931. Preservation of Indian timbers—the open tank process, by the same author. *Out of print.*

77. 1932. Identification of important Indian sleeper woods, by K. A. Chowdhury. *Out of print.*

\*81 1933. Testing and selection of commercial wood preservatives, by S. Kamesam. *As. 0-14-0.*

\*84 1933. Identification of the commercial timbers of the Punjab, by K. A. Chowdhury. *Rs. 3-0-0.*

\*85 1934. Record of the results obtained with experimental treated sleepers laid in the Indian Railways between 1911 and 1916, by S. Kamesam. *As. 0-8-0.*

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\*92 1941. Testing of packing cases for army boots and suggested improvements in their design, by V. D. Limaye. *As. 0-6-0.*

93 1941. Indian timbers for tool helvæs and handles, by the same author. *Out of print.*

\*94 1941. Specification for the inspection and passing of helvæs and hammer handles by the same author. *As. 0-4-0.*

\*95 1941. Stacking timber for air seasoning, by M. A. Rehman. *(Reprinted). As. 0-3-0.*

\*96 1941. Drying of wood fuel of *Shorea robusta* (sal), *Eugenia jambolana* ('aman) *Macilus duthiei* (kauña), by the same author. *As. 0-4-0.*

\*97 1941. Experiments on the air-seasoning and notes on the passing of sal sleepers, by the same author. *As. 0-7-0.*

\*98 1941. Indirect-heated internal-fan furnace kiln (blower-cum-furnace kiln) for drying packing case timbers, by M. A. Rehman, assisted by Inder Kishen Kapur. *As. 0-5-0.*

\*99 1941. Properties, preparation and testing of helvæs and tool handle timbers, by V. D. Limaye. *As. 0-8-0.*

§100 1941. Wrapping and packing papers from *ulla grass* (*Themeda arundinacea* Ridley Syn. *Anthistria gigantea* Cav.), by M. P. Bhargava and Chatter Singh. *(Reprinted 1945.) As. 0-6-0.*

103 1941. Jute cuttings for paper pulp, by M. P. Bhargava and A. N. Nayer. *Out of print.*

\*104 1942. Studies on coal-tar creosote as a wood preservative. Part 1.—Creosote extracted from timbers in service, by D. Narayananamurti and V. Ranganathan. *As. 0-12-0.*

\*105 1941. Variation of the electrical resistance of Indian timbers with moisture content, by D. Narayananamurti. *As. 0-8-0.*

108 1942. Manufacture of newsprint, cheap papers and boards. (Interim report on the investigations carried out at the Forest Research Institute, Dehra Dun), by M. P. Bhargava and S. Kartar Singh *(Reprinted 1945.) As. 0-12-0.*

§110 1942. Short note on wood preservation for users in India, by D. Narayananamurti. *(Revised & reprinted.) As. 0-14-0.*

\*111 1942. Cheap and simple types of tanks for the treatment of timber by the dipping, steeping or open tank process, by the same author *(Reprinted 1944). As. 0-6-0.*

\*112 1942. Interim report on the manufacture of kraft paper from bamboos, by M. P. Bhargava and Chatter Singh. *Out of print.*

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- \*113 1942. Interim report on the relation between rate of growth and strength of natural and plantation teak, by V. D. Limaye. As. 0-7-0.
- §114 1942. Note on the treatment of green *hollong* (*Dipterocarpus macrocarpus*), sleepers, by D. Narayananamurti. As. 0-4-0.
- §115 1942. How to distinguish between the sapwood and heartwood of sal (*Shorea robusta*), by K. A. Chowdhury. As. 0-4-0. .
- §116 1943. Studies on adhesives, Part 3.—Casein glues, by D. Narayananamurti, V. Ranganathan and Mohammed Ikram. (Reprinted 1945). As. 0-8-0.
- §117 1943. Testing of packing-cases and some suggested improvements in the design of such boxes, by V. D. Limaye. (Revised.) As. 0-4-0.
- §118 1943. Studies in fire resistance, Part 1.—The fire resistance of some Indian timbers. (a) The rate of burning, by D. Narayananamurti and R. Gopalachari. As. 0-6-0.
- 119 1943. Wood in mechanical and chemical engineering, by D. Narayananamurti. (Reprinted 1948). As. 0-10-0.
- §120 1943. Studies in permeability, Part 1.—A preliminary note on the permeability of wood and other materials to air, by D. Narayananamurti and A. Purushotham. As. 0-6-0.
- §121 1944. Tests on the suitability of Indian woods for the manufacture of textile and jute mill accessories, Part 1.—Substitutes for persimmon and cornel for cotton mill shuttles, by M. A. Rehman and Chheda Lal. *Out of print*.
- 122 1943. Tests on the suitability of Indian woods for the manufacture of textile and jute mill accessories, Part 2.—Care and seasoning of wood for bobbins picker arms, and jute mill rollers, by M. A. Rehman. *Out of print*.
- §123 1944. Detailed design of timber roof trusses made with wooden disc dowel joints, by V. D. Limaye. As. 0-6-0. [Combined with *Indian For. Rec.* (n.s.) 3 (1) & *Indian For. Leaflet* 31.]
- §124 1945. Indian woods for battery separators, by M. A. Rehman and S. M. Ishaq. *Out of print*.
- §126 1945. Ground-nut proteins in the sizing of papers, by Chattar Singh and Kartar Singh. As. 0-8-0.
- \*127 1942. Interim report on the pulping qualities of crushed and uncrushed bamboo chips, by M. P. Bhargava and Chattar Singh. As. 0-9-0.
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- \*128 1946. Bamboo for pulp and paper manufacture, Parts I—III, by M. P. Bhargava. As. 0-9-0.
- \*134 1942. Comparative study of some Indian China clays as paper fillers, by M. P. Bhargava and Chattar Singh. As. 0-8-0.
- \*137 1947. Preservative treatment of bamboos Part I, Treatment of green bamboos with inorganic preservatives, by D. Narayananamurti, A. Purushotham and J. N. Pande. As. 0-14-0.
- \*139 1948. Durability trials on glues and plywood, by D. Narayananamurti and J. N. Pande. As. 0-10-0.
- \*140 1951. Note on treated wooden transmission poles in India, by D. Narayananamurti. Rs. 1-10-0.
- \*143 1950. Interim report on the manufacture of newsprint from Paper mulberry (*Broussonetia papyrifera*), by Chattar Singh. Re. 1-0-0.
- \*144 1951. Studies on coal-tar creosote as a wood preservative, Part II. First interim report on creosotes of Indian origin, by D. Narayananamurti. Rs. 3-14-0.
- 145 1951. Pulping of Illuck grass (*Imperata arundinacea*) by soda and monosulphite processes, by Chattar Singh and S. R. D. Guha. As. 0-8-0.
- \*147 1950. Indian woods for battery separators (Supplement to *Indian Forest Bulletin* No. 124), by M. A. Rehman and Jai Kishen. As. 0-9-0.
- 148 1949. Utilization of Bagasse for wrapping and bagpaper manufacture, by M. P. Bhargava, G. S. Kasbekar and R. P. Bhargava. As. 0-10-0.
- 149 1950. Deodar as pencil wood, by M. A. Rehman and Jai Kishen. As. 0-5-0.

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151 1951. Diffusion in wood, I. Diffusion of ions through some Indian timbers, by D. Narayananamurti, V. Ranganathan and R. S. Ratra. **As. 0-8-0.**

152 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board, Part II. Semi-chemical and chemical pulps from *Lannea grandis* (*jhingan*), by R. V. Bhat and S. R. D. Guha. **As. 0-14-0.**

153 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part IV. Writing and printing papers from *Helecteris isora* Linn. (*marorphal*), by R. V. Bhat and Man Mohan Singh. **As. 0-7-0.**

154 1952. The seasoning behaviour of Indian timbers, Part I, by M. A. Rehman. **As. 0-8-0.**

155 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part V. Pulps and straw boards from *Ulla* grass (*Themeda arundinacea*) and *panni* grass (*Vetiveria zizanioides*), by R. V. Bhat and Man Mohan Singh. **As. 0-7-0.**

156 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part VI. Writing and printing papers from Paper mulberry (*Broussonetia papyrifera*) by R. V. Bhat and S. R. D. Guha. **As. 0-9-0.**

157 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part VII. Writing and printing papers from *Phragmites karka*, Trin, by R. V. Bhat and K. C. Virmani. **As. 0-12-0.**

158 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part VIII. Writing and printing papers from *Boswellia serrata*, Roxb. (*salai*), by R. V. Bhat, S. R. D. Guha and S. P. Panda. **As. 0-12-0.**

159 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part IX. Newsprint grade mechanical pulp from *Sterculia campanulata* (*papita*), by R. V. Bhat and K. C. Virmani. **As. 0-8-0.**

160 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part X. Writing and printing papers from *panni* grass (*Vetiveria zizanioides*), by R. V. Bhat and Man Mohan Singh. **As. 0-10-0.**

161 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XI. Chemical pulps from *Andropogon contortus*, Linn. (*Kusal* grass), by R. V. Bhat and M. G. Karnik. **As. 0-10-0.**

163 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XII. Chemical pulps and writing and printing papers from *Ulla* grass (*Themeda arundinacea*, Ridley), by R. V. Bhat and D. P. Roy. **Re. 1-0-0.**

164 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XIII. Chemical pulps and writing and printing papers from *Trema orientalis*, Blume, by R. V. Bhat and Narendra S. Jaupal. **As. 0-12-0.**

165 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XIV. Chemical pulps and writing and printing papers from *Sterculia campanulata*, Wall., by R. V. Bhat and K. C. Virmani. **As. 0-12-0.**

168 1953. Wood preservation in India (Past, present and future), by A. Purnashotham, J. N. Pande and Y. G. Jadhav. **Rs. 3-8-0.**

170 1953. The seasoning behaviour of Indian timbers. Part II. (Kiln drying schedules), by M. A. Rehman. **As. 0-5-0.**

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174 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XVI. Chemical pulps and writing and printing papers from wattle woods (*Acacia decurrens*, Willd. and *Acacia mollissima*, Willd.), by R. V. Bhat and K. C. Virmani. **As. 0-9-0.**

176 1954. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XVII. Writing and printing papers from Castor stems (*Ricinus communis*, Linn.), by R. V. Bhat and Narendra S. Jaupal. **As. 0-8-0.**

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*Indian Forest Leaflets.*

2-4 1941. Testing of Indian woods for ammunition boxes, Parts 1, 2 and 3, by V. D. Limaye. (*For official use only.*) *Out of print.*

§5 1941. Hot air kiln for seasoning half-wroughts of shuttles, bobbins, helve, pickerarms, etc., by M. A. Rehman. **As. 0-4-0.**

§6 1941. Some experiments on cork substitutes, by D. Narayananamurti, J. N. Pande and D. C. Roy. **As. 0-6-0.**

§7 1941. New type of veneer drying rack, by M. A. Rehman and Sultan Mohammed (*Reprinted 1945.*) **As. 0-6-0.**

§8 1941. Wooden poles for overhead electric transmission, by V. D. Limaye. **As. 0-4-0.**

9 1942. Charcoal for producer gas for lorries and buses, by S. Ramaswami. Superseded by *Indian For. Leaflet No. 35, Chemistry Series, 1943.*

10 1942. Preliminary note on the use of prolamins as adhesive, by D. Narayananamurti and V. Ranganathan. *Out of print.*

11 1942. Types of timber seasoning kilns suitable for drying Indian woods, by M. A. Rehman. Revised and superseded by *Indian For. Leaflet No. 34, 1943.*

13 1942. Safe working stresses for some important Indian timbers, by V. D. Limaye. Superseded by *Indian For. Rec. (n.s.) (4) (1), 1946.*

14 1942. Preliminary note on the suitability of Indian woods for battery separators, by M. A. Rehman and S. M. Ishaq. *Out of print.*

§15 1942. Studies on adhesives, Part 1.—Groundnut protein adhesives for plywood, by D. Narayananamurti and others. (Revised and reprinted 1944). **As. 0-4-0.**

§16 1942. Studies on adhesives, Part 2.—Groundnut protein formaldehyde dispersions as plywood adhesive, by D. Narayananamurti and Kartar Singh. (Revised and reprinted, 1944.) **As. 0-6-0.**

§17 1942. Interim report on the suitability of some Indian species for aircraft construction, *Michelia* species (champ), by V. D. Limaye. *Out of print.*

\*21 1942. How to identify timbers, Part 1.—Hints on the identification of Indian timbers, by K. A. Chowdhury. (Second edition.) **As. 0-7-0.**

24 1942. Plywood containers, by Sultan Mohammad. *Out of print.*

\*25 1942. How to identify timbers, Part 2.—Timbers for helve and tool handles by K. A. Chowdhury. (*Reprinted, 1945.*) **As. 0-6-0.**

§26 1942. Rectangular Plywood Containers. **As. 0-6-0.**

\*29 1942. Selection and field testing of aircraft quality spruce and fir, by V. D. Limaye. **As. 0-4-0.**

§31 1942. Wood disc dowel joints in timber framed structures, by V. D. Limaye (*Reprinted, 1944.*). Combined with *Indian For. Rec. (n.s.) 3 (1)* and *For. Bull. 123.* **As. 0-6-0.**

§33 1943. Detailed design of timber roof trusses made with wooden disc dowel joints, by the same author. (Superseded by *For. Bull. 123.*) **As. 0-6-0.**

§34 1943. Types of timber seasoning kilns suitable for drying Indian woods, by M. A. Rehman (*Indian Forest Leaflet No. 11, revised.*) **As. 0-6-0.**

§37 1943. How to identify timbers, Part 3.—Timbers for motor lorry bodies, by K. A. Chowdhury. **As. 0-6-0.**

§39 1943. Bamboo pill or ointment boxes, by Sultan Mohammad. *Out of print.*

\*40 1943. Studies on adhesives, Part 4.—Further note on prolamин adhesives, by D. Narayananamurti and V. Ranganathan. (*Reprinted, 1946.*) **As. 0-7-0.**

§41 1943. Studies on adhesives, Part 5.—A preliminary note on cold setting urea formaldehyde resin adhesives, by the same authors. (*Reprinted, 1945.*) **As. 0-4-0.**

§42 1943. Preliminary studies on improved wood, Part 1.—A study of the impregnation of wood with resins, by D. Narayananamurti and Kartar Singh. (*Reprinted, 1945.*) **As. 0-9-0.**

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## Indian Forest Leaflets—(contd.)

§43 1943. Air condenser kiln suitable for the seasoning of cooperage woods and packing case timbers, by M. A. Rehman. As. 0-6-0.

45 1943. Preliminary studies on improved wood, Part 2.—Laminated wood, by D. Narayananamurti and Kartar Singh. *Out of print.*

§46 1943. How to identify timbers, Part 4.—Timbers for boxes and packing cases, by S. S. Ghosh. (Reprinted, 1945.) As. 0-6-0.

§49 1943. Interim note on inner coatings for plywood containers, by Wood Preservation Section, F.R.I. As. 0-4-0.

\*50 1943. How to identify timbers, Part 5.—Timbers for gun and rifle parts, by K. A. Chowdhury and K. N. Tandon. *Out of print.*

§51 1943. How to identify timbers, Part 6.—Timbers for camp furniture, by K. A. Chowdhury. (Reprinted, 1945.) As. 0-6-0.

§52 1943. Studies on adhesives, Part 6.—Preliminary note on the use of sunn hemp seed proteins as plywood adhesives, by D. Narayananamurti, V. Ranganathan and D. C. Roy. As. 0-4-0.

§57 1942. Furnace heated veneer drying kiln suitable for the seasoning of veneers for the manufacture of plywood, by M. A. Rehman. As. 0-6-0.

58 1943. Studies on adhesives, Part 7.—Rapeseed protein formaldehyde dispersions as plywood adhesives, by D. Narayananamurti, V. Ranganathan and D. C. Roy. *Out of print.*

59 1943. Studies on adhesives, Part 8.—Adhesives from oil-seed cakes and whole seed meals, by V. Ranganathan and D. C. Roy. *Out of print.*

§61 1945. Kiln drying schedule for seasoning of veneers, by M. A. Rehman and S. M. Ishaq. *Out of print.*

63 1944. Studies on adhesives, Part 9.—Tar-acid, formaldehyde resin adhesives, by D. Narayananamurti and Kartar Singh. (Reprinted, 1946.) As. 0-9-0.

§65 1944. Conditioning chamber for plywood, by M. A. Rehman. As. 0-6-0.

66 1945. Indian woods for pencil making, by M. A. Rehman and S. M. Ishaq. *Out of print.*

§67 1944. Some ground-nut protein glue formulæ and their application, by D. Narayananamurti. (Reprinted 1945.) As. 0-4-0.

§68 1944. Note on sap stain and its prevention, by D. Narayananamurti and J. N. Pande. As. 0-6-0.

§77 1945. Preliminary studies on improved wood, Part 3.—Comregnated wood by D. Narayananamurti and Kartar Singh. As. 0-9-0.

§78 1945. Bending of skis, by M. A. Rehman and S. M. Ishaq. As. 0-6-0.

79 1945. Laminated skis, by D. Narayananamurti and V. Ranganathan. (Reprinted, 1947.) As. 0-5-0.

§80 1945. Index of the Series—“How to identify timbers”, Parts 1—6, by K. A. Chowdhury, S. S. Ghosh and K. N. Tandon. As. 0-6-0.

\*97 1947. Studies on adhesives, Part XII.—Preliminary note on cresol-formaldehyde and cresol casein-formaldehyde adhesives for plywood, by D. Narayananamurti, V. Ranganathan and O. P. Agarwal. As. 0-3-0.

\*98 1948. Preliminary studies on improved wood, Part IV.—Impregnation of wood with urea-formaldehyde resins, by D. Narayananamurti and J. George. As. 0-3-0.

\*99 1948. Studies on the storage life of adhesives, Part I.—Tego-glue film, by D. Narayananamurti and J. N. Pande. As. 0-8-0.

\*100 1948. Studies on adhesives, Part X.—Adhesives from castor seed cake and its proteins, by D. Narayananamurti and G. D. Dagg. As. 0-4-0.

\*101 1948. Resistance of wood to corrosion by hot chemicals, by D. Narayananamurti and V. Ranganathan. As. 0-2-0.

\*103 1948. Studies on Building Boards, Part II.—Preliminary studies on building boards from bamboos, by D. Narayananamurti and B. S. Bist. As. 0-5-0.

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*Indian Forest Leaflets*—(concl.)

- \*104 1948. A simple method of curing resin adhesives, by D. Narayanamurti and V. Ranganathan. *As.* 0-4-0.
- \*105 1949. Studies on the shortage life of adhesives, Part II.—Aerolite 306, by D. Narayanamurti and J. N. Pande. *As.* 0-7-0.
- \*106 1949. Notes on Indian woods for packing cases, by M. A. Rehman and N. C. Chatterji. *As.* 0-6-0.
- \*107 1948. A preliminary note on the suitability of Indian timbers for lap joint tests, by D. Narayanamurti and G. D. Dagg. *As.* 0-8-0.
- \*108 1948. Studies on adhesives, Part XIII.—Whole blood meal adhesives, by D. Narayanamurti, V. Ranganathan and M. L. Dabral. *As.* 0-4-0.
- \*110 1949. Studies on Building Boards, Part III.—Boards from wood shavings and saw dust, by D. Narayanamurti, V. Ranganathan and B. S. Bist. *As.* 0-3-0.
- \*111 1949. Studies on adhesives, Part XI.—A preliminary note on adhesives from cashew-nut shell oil, by D. Narayanamurti and N. C. Jain. *As.* 0-3-0.
- \*112 1949. Studies on Building Boards, Part I.—Utilization of Areca-nut husk waste, by D. Narayanamurti and others. *As.* 0-4-0.
- \*113 1949. Preliminary studies on improved wood, Part V.—Improved wood (laminated) made with Formvar resin, by D. Narayanamurti and J. N. Pande. *As.* 0-6-0.
- \*114 1949. Influence of psychrometric conditions on the setting time of adhesives, by D. Narayanamurti and N. R. Das. *As.* 0-12-0.
- \*115 1948. Strip heating (low voltage) method of accelerating the setting of adhesives, by D. Narayanamurti and B. N. Prasad. *As.* 0-14-0.
- \*116 1949. Utilization of Palmyra stalks for manufacture of bleached writing papers, Interim Report, by M. P. Bhargava, G. S. Kasbekar and P. J. Patel. *As.* 0-3-0.
- \*118 1949. Studies on Building Boards, Part IV.—Utilization of tree barks, by D. Narayanamurti and N. R. Das. *As.* 0-3-0.
- \*119 1950. Studies on Adhesives, Part XIV.—Use of the proteins of *Lathyrus sativus* for wood adhesives, by D. Narayanamurti and Avtar Singh Chimma. *As.* 0-7-0.
- 123 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part I.—Pulps for writing and printing papers from *Arundo donax*, by R. V. Bhat and K. C. Virmani. *As.* 0-7-0.
- 124 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part II.—Pulps for writing and printing papers from the Castor Oil plant (*Ricinus communis*), by R. V. Bhat and Narendra S. Jaspal. *As.* 0-8-0.
- 126 1952. Treatment of Indian timbers for pencils and hand tools for pencil making, by M. A. Rehman and Jai Kishen. *As.* 0-4-0.
- 128 1952. Studies on adhesives, Part XVI. Plywood adhesives from cashew nut shell liquid, by D. Narayanamurti and C. P. Dhamaney. *As.* 0-5-0.
- 129 1952. Timber for sports goods. Indian report on the strength of timber from mulberry plantations, by V. D. Limaye. *As.* 0-5-0.

*Indian Forest Memoirs*

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- 1 (1) 1909. Indian woods and their uses, by R. S. Troup. *Out of print.*
- 2 (1) 1910. Prospects of the match industry in the Indian Empire, with particulars of proposed match factory sites and woods suitable for match manufacture, by the same author. *Out of print.*
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12 1910. Petwun or trincomali wood (*Berrya ammonica*, Roxb.), by the same author. *Out of print.*

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14 1909. Burma padauk (*Pterocarpus macrocarpus*, Kurz), by the same author. *Out of print.*

## Forest Pamphlets (New Series)

1940. No. 1 (Wood Preservation Series).—A short note on wood preservation for users in India, by D. Narayananamurti. *Out of print.*

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7 (6) 1919. Note of the mechanical strength and seasoning properties of *Shorea robusta* (sal) timber, by R. S. Pearson. *Out of print.*

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+10 (5) 1924. Analysis of the tanning properties of certain Burma *Lagerstroemias*, by E. Pasupati. Reported by J. A. Pilgrim. As. 0-7-0.

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10 (9) 1924. Tanning investigation of some Burmese *Dipterocarps*, by J. A. Pilgrim. *Out of print.*

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+17 (7) 1933. Interim report on work under Project No. 2. Strength tests of timbers in structural sizes, with test results up to 1932, by L. N. Seaman. As. 0-2-0.

\*18(10) 1933. Third interim report on Project No. 1.—Physical and mechanical properties, of woods grown in India, by V. D. Limaye. *Out of print.*

+20(13) 1935. Results of experiments on the kiln-drying of wood with ozonized air, by S. N. Kapur. As. 0-8-0.

20(14) 1934. Interim report on work under Project VIII.—Testing of Indian timbers for veneer and plywood, by W. Nagle. *Out of print.*

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\*1 (2) 1936. Experiments on the air seasoning of softwood railway sleepers, by the same authors. Rs. 1-4-0.

\*1 (3) 1936. Results obtained with a timber drying kiln heated directly by furnace gases (Heimpel and Besler's double firing generator kiln), by S. N. Kapur. *Out of print.*

1 (4) (Withdrawn).

1 (5) 1937. Second interim report on work under Project VIII.—(Testing of Indian timbers for veneers and plywood), by W. Nagle. *Out of print.*

1 (6) (Withdrawn).

1 (7) 1938. Official list of trade names of Indian Timbers. (Revised 3rd edition). *Out of print.*

1 (8) 1939. Air seasoning characteristics of some Indian woods (Supplement to the Manual on the air seasoning of Indian timbers), by S. N. Kapur and M. A. Rahman. *Out of print.*

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**Indian Forest Records (New Series)—(concl.)**

§1A 1939. Comparative strengths of some important Indian timbers and their uses, by V. D. Limaye. (Reprinted 1943). As. 0-12-0.

\*2 (1) 1939. Formation of growth rings in Indian trees, Part 1.—(a) chir (*Pinus longifolia*), (b) cutch (*Acacia catechu*), (c) jaman (*Eugenia jambolana*), (d) laurel (*Terminalia tomentosa*), (e) sal (*Shorea robusta*), (f) semul (*Bombax malabaricum*), and (g) teak (*Tectona grandis*), by K. A. Chowdhury. Rs. 2-2-0.

\*2 (2) 1940. Formation of growth rings in Indian trees, Part 2.—(a) champ (*Michelia champaca*), (b) kokko (*Albizia lebbek*), (c) sissoo (*Dalbergia sissoo*), (d) toon (*Cedrela toona*), by the same author. As. 0-12-0.

\*2 (3) 1940. Formation of growth rings in Indian trees, Part 3.—A study of the effect of locality, by the same author. Re. 1-0-0.

\*2 (4) 1941. Third interim report on work under Project VIII.—(Testing of Indian timbers for veneers and plywood). As. 0-9-0.

\*2 (5) 1941. Experiment on the air seasoning *Pinus longifolia* (chir) sleepers in the East Almorah Division, U.P., by M. A. Rehman. Rs. 1-2-0.

\*2 (6) 1942. Thermal conductivity of Indian timbers, Part 1.—Variation of conductivity with density in the air-dry condition at ordinary temperature, by D. Narayananamurti and V. Ranganathan. As. 0-9-0.

2 (7) 1942. Indian timbers for aircraft and gliders, by V. D. Limaye. *Out of print.*

\*2 (8) 1942. Testing and suitability of Indian timbers for plywood tea chests, by V. D. Limaye and Sultan Mohammed. As. 0-9-0.

\*2 (9) 1942. Testing of ammunition boxes, by V. D. Limaye. (*For official use only*).

\*2 (10) 1942. Survey of the seasonal variation of the moisture content of Indian woods by M. A. Rehman. Rs. 1-4-0.

2 (11) 1942. Manufacture of plywood in India, compiled by S. N. Kapur. *Out of print.*

§3 (1) 1943. Timber roof trusses with solid wood disc dowel joints, by V. D. Limaye. (*Combined with Indian For. Leaflet No. 31 and Forest Bull. No. 123*). As. 0-6-0.

3 (2) 1943. Thermal conductivity and other properties of some indigenous materials, by D. Narayananamurti. As. 0-6-0.

§3 (3) 1943. Bamboo nails, their manufacture and holding power, by V. D. Limaye. As. 0-6-0.

§3 (4) 1943. Testing of Indian plywood tea chests and suggestions for establishing a standard type, by the same author. (Reprinted 1945). As. 0-6-0.

§3 (5) 1944. Suitability and selection of timbers for different uses, Parts 1 and 2, by V. D. Limaye. *Out of print.*

§3 (6) 1945. Identification of Burma commercial timbers, by K. A. Chowdhury. As. 0-12-0.

§3 (7) 1945. Regional keys for the identification of important timbers used in military areas of inspection, Parts I, II and III, by the same author. *Out of print.*

\*4 (1) 1946. Safe working stresses for Indian timbers, by V. D. Limaye. As. 0-5-0.

\*4 (2) 1947. Seasoning and shrinkage of bamboo, by M. A. Rehman and S. M. Ishaq. Rs. 1-2-0.

\*4 (3) 1947. Some more commercial timbers of India, by K. A. Chowdhury and S. S. Ghosh. Rs. 1-10-0.

*Other Publications.*

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†1925. Development of India's forest resources. Compiled by the Economic Branch of the Forest Research Institute, Dehra Dun. Rs. 2-12-0.

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†Project No. II, 1925. Tests of Indian timbers in structural sizes, by the same author. As. 0-8-0.

†Project No. IV, 1925. Mechanical strength, seasoning properties, treatment of, and key to certain Indian sleeper woods, by R. S. Pearson, L. N. Seaman, C. V. Sweet, J. H. Warr and H. P. Brown. As. 0-9-0.

†Project No. V, 1924. Testing of raw materials (Paper-pulp Section), by W. Raitt. As. 0-5-0.

Project No. VII, 1926. Kiln seasoning of Indian timbers, by S. Fitzgerald and S. N. Kapur. *Out of print.*

Project No. VIII, 1929. Testing of Indian woods for veneer and plywood, including tests on glues, by W. Nagle and Project No. o/k Mechanical Tests, by L. N. Seaman. *Out of print.*

1944. Common Commercial timbers of India and their uses (third edition), by H. Trotter, obtainable from M/s. Jugal Kishore & Co., Rajpur Road, Dehra Dun. Rs. 2-8-0.

1951. Common Commercial timbers of India and their uses, by H. Trotter, Urdu translation, by M. A. Rehman and Ibn Hasan Zaidi. Rs. 1-8-0.

\*1935. Rules for the grading of teak squares, by L. N. Seaman and V. D. Limaye. As. 0-6-0. *Out of print.*

§Charts for the design of timber beams, by V. D. Limaye. As. 0-4-0.

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§1 1939. Veneers, by W. Nagle. As. 0-4-0.

§2 1938. Laminated wood, by the same author. As. 0-4-0.

## Manuals

1907. Indian Forest Utilisation, by R. S. Troup. *Out of print.*

1934. Manual on the Air Seasoning of Indian Timbers, by S. N. Kapur. *Out of print.*

\*1925. Elementary Manual on Indian Wood Technology, by H. P. Brown. Re. 1-0-0.

1940. Manual of Indian Forest Utilisation, by H. Trotter (obtainable through Oxford University Press, Bombay). *Out of print.*

## Special Lecture Notes for Indian Forest Students.

1925. Minor forest products of India, by H. Trotter. *Out of print.*

1925. Preservation of timber, by J. H. Warr. *Out of print.*

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†1925. Timber strengths and timber testing, by L. N. Seaman. As. 0-8-0.

1926. Timber seasoning, by S. Fitzgerald and S. N. Kapur. *Out of print.*

†1926. Sawmill, wood workshop and tool room management, by W. Nagle. As. 0-2-0.

## Publications printed outside India.

†1932. Commercial Timbers of India, by R. S. Pearson and H. P. Brown. 2 Vols. For forest officers Rs. 47-0-0. For public Rs. 67-0-0.

1922. Manual of Indian Timbers, by J. S. Gamble. *Out of print.*

### WOOD TECHNOLOGY SERIES

#### Indian Forest Records (New Series)

- \*1 (1) 1950. The formation of growth rings in Indian trees. Part IV.—False growth rings in saplings of teak (*Tectona grandis*) and mahogany (*Swietenia macrophylla*), by K. A. Chowdhury and K. Ramesh Rao. Rs. 1-6-0.
- \*1 (2) 1950. The formation of growth rings in Indian trees, Part V.—A study of some discs of sandal wood (*Santalum album*), by K. A. Chowdhury and S. S. Ghosh. Rs. 2-0-0.
- 1 (3) 1951. West Bengal Commercial Timbers (their identification, properties and uses), by K. A. Chaudhury. Rs. 3-6-0.

#### Indian Forest Records (New Series) Composite Wood and Wood Preservation.

- 1 (1) 1951. Weathering trials on aircraft wings, by D. Narayananmurti, A. Purushotham, V. Ranganathan, N. C. Jain, J. N. Pande, Joseph George and B. S. Bist. Rs. 2-0-0.

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- 1 (1) 1952. Weathering trials on some synthetic resin bonded aircraft components, by D. Narayananmurti, Subramanyam and N. R. Das. As. 0-12-0.

#### Indian Forest Records (New Series) Timber Mechanics.

- 1 (1) 1952. Strength of bamboo (*Dendrocalamus strictus*), by V. D. Limaye. As. 0-14-0.

### TIMBER DEVELOPMENT SERIES

#### Wood is Good Booklets

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- §3 1937. Manufacture of small dimension stock as a rural industry, by the same author. As. 0-4-0.
- §4 1937. Truth about fire hazard in timber structures, by the same author, As. 0-4-0.
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- §9 1937. Special factors affecting timber design, by the same author. As. 0-4-0.
- 11 1937. How to build wooden earthquake and storm-proof houses, by the same author. As. 4-0-0.
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- 23 1937. Treated wood for walls and ceilings, by the same author. As. 0-4-0.

#### Indian Forest Leaflets

- 36 1942. River Training works, by J. L. Harrison. (Reprinted, 1945.) As. 0-9-0.
- †62 1944. Fire places, by the same author. (Reprinted, 1945.) As. 0-6-0.

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\*79 1932. Calorific values of some Indian woods, by S. Krishna and S. Ramaswami. *Out of print.*

\*101 1942. Wood flour for dry electric cells, by S. V. Puntambekar and S. Krishna. *As. 0-3-0.*

\*102 1941. Active principles of *Embelia robusta* Roxb., *Myrsine semiserrata* Wall., and *M. capitellata* Wall., by S. Krishna and B. S. Varma. *As. 0-3-0.*

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